

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0812
 CALIBRATION DATE: 08-Dec-09

SBE 37 CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.097237e+000	CPcor = -9.5700e-008
h = 1.543499e-001	CTcor = 3.2500e-006
i = -3.090142e-004	WBOTC = -8.0013e-005
j = 4.864698e-005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2672.72	0.00000	0.00000
1.0001	34.7615	2.97174	5139.66	2.97174	0.00000
4.5000	34.7416	3.27837	5329.91	3.27836	-0.00001
14.9999	34.6988	4.25871	5896.84	4.25871	-0.00000
18.5000	34.6891	4.60331	6083.47	4.60332	0.00001
24.0000	34.6778	5.16030	6373.43	5.16030	-0.00000
29.0000	34.6706	5.68113	6632.96	5.68113	-0.00000

$$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$$

$$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p) \text{ Siemens/meter}$$

$$t = \text{temperature}[^{\circ}\text{C}]; p = \text{pressure}[\text{decibars}]; \delta = \text{CTcor}; \epsilon = \text{CPcor};$$

$$\text{Residual} = \text{instrument conductivity} - \text{bath conductivity}$$

